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NOTICE OF ALLOWANCE AND FEE(S) DUE

21171 7590 09/07/2010

STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005 EXAMINER

BARQADLE, YASIN M

ART UNIT PAPER NUMBER

2456 DATE MAILED: 09/07/2010

ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
•	10/717.563	11/21/2003	Gerhard Hammer	2454.1108	8456	

TITLE OF INVENTION: METHOD FOR OPERATING A NETWORK WITH WIRELESS TRANSMISSION OF DATA AND SUBSCRIBER FOR SAID NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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10/717,563 TITLE OF INVENTION NETWORK	11/21/2003 S: METHOD FOR OPER	ATING A	NETWORK	Gerhard Hammer WITH WIRELESS T		SMISSION OF DA	ATA A	2454.1108 ND SUBSCRIBER F	OR SA	8456 AID
APPLN. TYPE	SMALL ENTITY	ISSUE I	FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	Т	DATE DUE
nonprovisional	NO	\$1	510	\$300		\$0		\$1810		12/07/2010
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"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 8/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignce is ident h in 37 CFR 3.11. Comp	nge of Corre 'Indication ed. Use of a	form Customer	registered attorney 2 registered patent listed, no name wi THE PATENT (print of	ap to rnativ single or attor II be por or typ he pa	3 registered paten ely, e firm (having as a gent) and the name neys or agents. If o printed.	members of uno name	er a 2 2 50 to e is 3 2 entified below, the d		ent has been filed for
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4a. The following fee(s) Issue Fee Publication Fee (N	vo small entity discount p	ermitted)		b. Payment of Fee(s): A check is enclose Payment by credi The Director is he overpayment, to l	sed. it care	1. Form PTO-2038	is atta			
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21171	7590 09/07/2010		EXAMINER			
STAAS & HAI	SEY LLP	BARQADLE, YASIN M				
SUITE 700		ART UNIT PAPER NUMBER				
1201 NEW YOR WASHINGTON	K AVENUE, N.W. , DC 20005	2456 DATE MAILED: 09/07/2010				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1219 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1219 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/717.563 HAMMER ET AL. Notice of Allowability Examiner Art Unit YASIN BAROADI E 2456 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 8/9/2010. 2. The allowed claim(s) is/are 1-6 and 8. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 8/23/2010. Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date

of Biological Material

4. ☐ Examiner's Comment Regarding Requirement for Deposit

9. ☐ Other .

8. T Examiner's Statement of Reasons for Allowance

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Examiner's Amendment

 An examiner's amendment to the record is attached. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

 Authorization for this examiner's amendment was given in a telephone interview with Mr. Aaron C. Walker (Reg. 59,921) on August 23, 2010.

3. In the claims:

- · Please amend the claims as attached
- 1. (currently amended) A method for operating a network that includes wireless data transmission between a plurality of users, the network having at least two radio cells which at least partly overlap, and each radio cell having at least one base station, each base station using at least one unique communication channel for transmitting data to one or more of the plurality of users, the method comprising:

interconnecting the base stations of the at least two radio cells, respectively, via at least one common communication channel;

at predefined maximum time intervals, the base stations in the respective radio cells simultaneously transmit test signals during test cycles, wherein, during each test cycle, each respective base station transmits a number of test signals at least equal to a number of unique communication channels being used by the respective base station and each base station having a radio cell that overlaps the radio cell of the respective base station; and

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determining, within each respective radio-coupled user and based on the test signals, the unique communication channel with optimum transmission properties for that radio-coupled user;

transmitting by field devices measured values and control variables in an equidistant cycles to a programmable controller; and

inserting, by the programmable controller, a test cycle into each of the equidistant cycles, wherein

the communication link is a PROFIBUS communication link and wherein the programmable controller controls the base stations and the field devices connected to the programmable controller via the PROFIBUS communication link.

- (original) A method as claimed in claim 1, wherein at least one user initiates the test cycles with messages recurring at the predefined maximum time intervals.
- (original) A method as claimed in claim 2, wherein a user having a logic mastership in a network using an access procedure based on the masterslave principle is the user which initiates the test cycles.
- (previously presented) A method as claimed in claim 1, further comprising:

sending, from each of the base stations, at least one test signal during a test cycle on the unique communication channel assigned to the respective base station;

setting, within each of the radio-coupled users, all the unique communication channels for reception of the test signals during the test cycle; and

retaining, within each respective radio-coupled user, a unique

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communication channel with the best transmission properties for the transmission of data after the test cycle.

5. (previously presented) A method as claimed in claim 1, wherein each of the base stations successively

transmit the test signals on each of the unique communication channels during a test cycle so that no two base stations simultaneously transmit on the same unique communication channel.

(previously presented) A method as claimed in claim 5, further comprising:

receiving, within the radio-coupled users, the test signals during the test cycle on a unique communication channel that is fixed for the duration of the test cycle; and

determining which base station corresponds to the test signal on the unique communication channel received with the best transmission properties;

retaining, within each respective radio-coupled user, the respective unique communication channel of the determined base station as the one with the best transmission properties for the transmission of data after the test cycle.

7. (cancelled)

 (currently amended) A communication system comprising: a communication link operable to carry communication signals;

a plurality of base stations each corresponding to a respective cell and each connected to said communication link, each base station being operable to simultaneously transmit with other base stations test signals in each of a plurality of different channels during each test cycle;

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a plurality of user devices each operable to receive the test signals in each channel from each base station, said user devices each comprising a channel determiner operable to determine a channel corresponding to a test signal with the strongest signal level and a switch device operable to switch an interface of the user device to the determined channel, wherein

each user device receives from each base station a number of test signals at least equal to a number of channels being used by the respective base station and each base station having a radio cell that overlaps a radio cell of the respective base station.

measured values and control variables are transmitted by field devices in an equidistant cycles to a programmable controller and the programmable controller inserts a test cycle into each of the equidistant cycles, and

the communication link is a PROFIBUS communication link and wherein the programmable controller controls the base stations and the field devices connected to the programmable controller via the PROFIBUS communication link.

9-17. (cancelled)

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dharia Rupal can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yasin M Barqadle/ Primary Examiner, Art Unit 2456